

Task A

Step 1.) To create the 6 users I typed in the command “**sudo useradd ____**”. This command allows you to create a user and export the shadow file. After creating the users, to create a password for each I typed in the command “**sudo passwd ____**”. This command allows me to set a password for each user.

For example: **sudo useradd Bob**

sudo passwd Bob

For each user I created the following passwords:

User 1: Bob

Password: apple

User 2: Susie

Password: 2022

User 3: Dave

Password: tree23

User 4: Fred

Password: banana1!*

User 5: Mary

Password: Fall25

User 6: Sam

Password: Summer25!

CYSE LINUX [Running] - Oracle VirtualBox

File Machine View Input Devices Help



File Actions Edit View Help

passwd: user 'apple' does not exist

(jasmin@Kali)-[~]

\$ sudo passwd Bob

New password:

Retype new password:

passwd: password updated successfully

(jasmin@Kali)-[~]

\$ sudo useradd Susie

(jasmin@Kali)-[~]

\$ sudo passwd Susie

New password:

Retype new password:

passwd: password updated successfully

(jasmin@Kali)-[~]

\$ sudo useradd Dave

(jasmin@Kali)-[~]

\$ sudo passwd Dave

New password:

Retype new password:

passwd: password updated successfully

(jasmin@Kali)-[~]

\$ sudo useradd Fred

(jasmin@Kali)-[~]

\$ sudo passwd Fred

New password:

Retype new password:

passwd: password updated successfully

(jasmin@Kali)-[~]

\$ sudo useradd Mary

(jasmin@Kali)-[~]

\$ sudo passwd Mary

New password:

Retype new password:

passwd: password updated successfully

(jasmin@Kali)-[~]

\$ sudo useradd Sam

(jasmin@Kali)-[~]

\$ sudo passwd Sam

New password:

Retype new password:

passwd: password updated successfully

Step 2.) To export the users hashes into a file named **01286080.hash** I typed in the command **sudo cp /etc/shadow 01286080.hash**. This command allows me to export the shadow file containing the passwords to the hash file. Afterwards, to confirm that the command was executed properly, I typed in the command **ls -l** and saw that the 01286080.hash file populated.

```
(jasmin@Kali)-[~]  
$ sudo cp /etc/shadow 01286080.hash  
  
(jasmin@Kali)-[~]  
$ ls -l  
total 52  
-rw-r----- 1 root root 2091 Oct 3 20:25 01286080.hash  
-rw-r--r-- 1 jasmin jasmin 5332 Sep 14 14:47 copyright_cyse270  
drwxrwxr-x 2 jasmin jasmin 4096 Sep 6 17:41 data  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Desktop  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Documents  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Downloads  
drwxr-xr-x 8 jasmin jasmin 4096 Sep 14 14:44 jasmin  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Music  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Pictures  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Public  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Templates  
drwxr-xr-x 2 jasmin jasmin 4096 Aug 28 21:14 Videos  
  
(jasmin@Kali)-[~]  
$
```

Step 3. After exporting the files, I entered the command **sudo john --format=crypt 01286080.hash --wordlist=home/student/rock.txt**, which is a command used to crack the passwords and this was my result.

```
(jasmin@Kali)-[~]  
$ sudo john --format=crypt 01286080.hash --wordlist=home/student/rockyou.txt  
Using default input encoding: UTF-8  
Loaded 1 password hash (crypt, generic crypt(3) [?/64])  
Cost 1 (algorithm [1:descrypt 2:md5crypt 3:sunmd5 4:bcrypt 5:sha256crypt 6:sha512crypt]) is 0 for all loaded hashes  
Cost 2 (algorithm specific iterations) is 1 for all loaded hashes  
fopen: home/student/rockyou.txt: No such file or directory
```